

4-16-07

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Express Mail Label No.: EV942366850US

Date of Deposit: April 12, 2007

Attorney Docket No. 21465-509 UTIL

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS : Chen, Yi-Ju, et al.

CONFIRMATION NO. : 8174

SERIAL NUMBER : 10/768,729

EXAMINER : Thomas, David C.

FILING DATE : January 28, 2004

ART UNIT : 1637

FOR : Double Ended Sequencing

MAIL STOP AMENDMENT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Transmitted herewith for filing in the above-referenced patent application are the following documents:

1. Amendment and Response to Non-Final Office Action dated January 25, 2007 (8 pages); and
2. Return postcard.

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (212) 935-3000, New York, New York.

The Commissioner is authorized to charge any additional fees that may be due, or to credit any overpayment, to the undersigned's account, Deposit Account No. **50-0311**, Reference No. **21465-509 UTIL**, Customer No. **35437**. A duplicate copy of this Transmittal Letter is enclosed.

Respectfully submitted,

Dated: April 12, 2007

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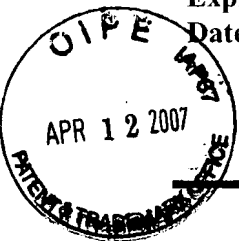
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AMENDMENT AND RESPONSE TO OFFICE ACTION

In response to the non-final Office Action mailed January 25, 2007 in the above-identified case, Applicants respectfully request entry and consideration of this Amendment and Response under 37 C.F.R. §1.111. Applicants believe that no fees are due with the filing of this Response, as this Response is filed on or before the due date of April 25, 2007. However, if any fees are required or if any funds are due, the USPTO is authorized to charge or credit Deposit Account Number **50-0311**, Customer Number: **35437**, Reference Number: **21465-509 UTIL**.

Amendments to the claims begin on page 2 of this paper.

Remarks/Arguments begin on page 7 of this paper.